

**SUPER THOROSEAL WATERPROOF COATING**

Version 1.3

08/03/01

**SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

T5011 T5010

<b>Company</b>	:	ChemRex US 889 Valley Park Drive SHAKOPEE, MN 55379 USA	ChemRex CA 1800 Clark Blvd BRAMPTON, ON L6T 4M7 Canada	<b>Supplier:</b> KST Coatings, LLC 1499 Enterprise Pkwy Twinsburg, OH 44087
<b>Phone</b>	:	952-496-6000		
<b>Fax</b>	:			
<b>Emergency contact</b>	:	800-424-9300		
<b>Productname</b>	:	SUPER THOROSEAL WATERPROOF COATI		
<b>MSDS</b>	:	10906		
<b>Customer Service</b>	:	888-321-5665	<b>Fax</b> :	888-296-5665

**SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS**

ITEM	CHEMICAL NAME	CAS NUMBER	WT/WT % LESS THAN
01	calcium hydroxide	1305-62-0	5.0 %
02	calcium oxide	1305-78-8	5.0 %
03	ferric oxide	1309-37-1	10.0 %
04	magnesium oxide	1309-48-4	5.0 %
05	Limestone, Calcium carbonate	1317-65-3	5.0 %
06	titanium dioxide	13463-67-7	5.0 %
07	Crystalline (quartz) silica	14808-60-7	35.0 %
08	Portland cement	65997-15-1	40.0 %
09	Calcium Sulfate	7778-18-9	10.0 %

----- EXPOSURE LIMITS -----						
ITEM	ACGIH		OSHA		COMPANY	SKIN
	TLV-TWA	TLV-STEL	PEL-TWA	PEL-CEILING	TLV-TWA	
01	2 mg/m3	N.E.	5 mg/m3	N.E.	N.E.	NO
02	2 mg/m3	N.E.	5 mg/m3	N.E.	N.E.	NO
03	10 mg/m3	N.E.	15 mg/m3	N.E.	N.E.	NO
04	10 mg/m3	N.E.	15 mg/m3	N.E.	N.E.	NO
05	10 mg/m3	N.E.	15 mg/m3	N.E.	N.E.	NO
06	10 mg/m3	N.E.	15 mg/m3	N.E.	N.E.	NO
07	.05 mg/m3	N.E.	.05 mg/m3	N.E.	N.E.	NO
08	10 mg/m3	N.E.	15 mg/m3	N.E.	N.E.	NO
09	10 mg/m3	N.E.	5 mg/m3	N.E.	N.E.	NO

(See Section 16 for abbreviation legend)

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**SECTION 3 - HAZARDOUS IDENTIFICATION**

EFFECTS OF OVEREXPOSURE - EYE CONTACT: Severely irritating. If not removed promptly, will injure eye tissue, which may result in permanent damage.

EFFECTS OF OVEREXPOSURE - SKIN CONTACT: May cause irritation.

EFFECTS OF OVEREXPOSURE - INHALATION: May cause respiratory tract irritation.

EFFECTS OF OVEREXPOSURE - INGESTION: Irritating to mouth, throat and stomach.

EFFECTS OF OVEREXPOSURE - CHRONIC HAZARDS: Preexisting respiratory or skin condition(s) may be aggravated by exposure. This product contains silicon dioxide [quartz] which has been listed as a suspected human carcinogen by NTP and IARC. Repeated or prolonged over exposure to free silica may cause silicosis or other delayed and serious lung injury.

PRIMARY ROUTE(S) OF ENTRY: SKIN CONTACT INHALATION INGESTION EYE CONTACT

**SECTION 4 - FIRST AID MEASURES**

FIRST AID - EYE CONTACT: Flush eye with water for 15 minutes. Get medical attention.

FIRST AID - SKIN CONTACT: Remove contaminated clothing and shoes. Wash affected area(s) thoroughly with soap and water. If irritation persists, seek medical attention.

FIRST AID - INHALATION: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get immediate medical attention.

FIRST AID - INGESTION: If swallowed, DO NOT induce vomiting. Give victim a glass of water or milk. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person. Should vomiting occur, be sure to keep victim's head below hips to avoid aspiration of vomitus into lungs.

**SECTION 5 - FIRE FIGHTING MEASURES**

FLASH POINT: Non-Combustible

LOWER EXPLOSIVE LIMIT: N.A.

UPPER EXPLOSIVE LIMIT: N.A.

AUTOIGNITION TEMPERATURE: N.A.

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**SECTION 5 - FIRE FIGHTING MEASURES**

EXTINGUISHING MEDIA: CO2 DRY CHEMICAL WATER FOG

UNUSUAL FIRE AND EXPLOSION HAZARDS: This product is alkaline and releases considerable heat on contact with small amounts of water. Avoid contact between resulting hot alkaline paste and metallic aluminum. Such contact could generate hydrogen gas.

SPECIAL FIREFIGHTING PROCEDURES: As in any fire, wear self-contained breathing apparatus pressure-demand (MSHA/NIOSH approved or equivalent) and full protective gear.

**SECTION 6 - ACCIDENTAL RELEASE MEASURES**

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Vacuum or sweep up material and place in a disposal container. Ventilate area. Wear dust/mist mask or other appropriate protection. Flush spill with excess water to a chemical sewer or soak up with inert absorbent. Do not discharge to lakes, streams, ponds, or sewer.

**SECTION 7 - HANDLING AND STORAGE**

HANDLING: Use only in a well ventilated area. Keep out of reach of children. If user operations generate dust, fume, or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

STORAGE: Keep container closed when not in use.

**SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION**

ENGINEERING CONTROLS: Local exhaust ventilation may be necessary to control any air contaminants to within their TLVs during the use of this product.

RESPIRATORY PROTECTION: Wear NIOSH/MSHA approved respiratory protection when the product is mixed or applied in a poorly ventilated area or if workplace levels of ingredients exceed the TLV. Follow applicable federal, state, and local regulations. Wear disposable dust mask.

OTHER PROTECTIVE EQUIPMENT: Where contact is likely, wear chemical resistant gloves, chemical safety goggles with a face shield, and clean protective clothing to cover arms and legs to keep exposure to a minimum.

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**SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION**

HYGIENIC PRACTICES: Do not take internally. Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Avoid contact with eyes, skin, and clothing.

**SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES**

BOILING RANGE	: N.A.	VAPOR DENSITY	: N.A.
ODOR	: N.D.	ODOR THRESHOLD	: N.D.
APPEARANCE	: Gray Powder	EVAPORATION RATE	: N.A.
SOLUBILITY IN H <sub>2</sub> O	: Slight (<0.1%)	SPECIFIC GRAVITY	: N.D.
FREEZE POINT	: N.D.	pH @ 100.0 %	: N.A.
VAPOR PRESSURE	: N.A.	VISCOSITY	: N.D.
PHYSICAL STATE	: Solid		
COEFFICIENT OF WATER/OIL DISTRIBUTION: N.D.			

(See Section 16 for abbreviation legend)

**SECTION 10 - STABILITY AND REACTIVITY**

CONDITIONS TO AVOID: No Information.

INCOMPATIBILITY: Avoid contact with oxidizing material. Contact with strong acids and bases.

HAZARDOUS DECOMPOSITION PRODUCTS: No Information.

HAZARDOUS POLYMERIZATION: Will not occur under normal conditions.

STABILITY: This product is stable under normal storage conditions.

**SECTION 11 - TOXICOLOGICAL PROPERTIES**

PRODUCT DERMAL LD<sub>50</sub>: No Information      PRODUCT ORAL LD<sub>50</sub>: No Information  
PRODUCT LC<sub>50</sub>: No Information

**COMPONENT TOXICOLOGICAL INFORMATION:**

---- CHEMICAL NAME ----	-- DERMAL LD50 --	--- ORAL LD50 ---	----- LC50 -----
calcium hydroxide	No Information	7340 mg/kg	No Information
calcium oxide	No Information	No Information	No Information
ferric oxide	No Information	5500 mg/kg	No Information
magnesium oxide	No Information	No Information	No Information
Limestone, Calcium carb	No Information	6450 mg/kg	No Information

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## SECTION 11 - TOXICOLOGICAL PROPERTIES

---- CHEMICAL NAME ----	-- DERMAL LD50 --	--- ORAL LD50 ---	----- LC50 -----
titanium dioxide	No Information	> 7500 mg/kg	No Information
Crystalline silica	No Information	No Information	No Information
Portland cement	No Information	No Information	No Information

## SECTION 12 - ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION: No Information.

## SECTION 13 - DISPOSAL CONSIDERATIONS

DISPOSAL METHOD: Review all local, state, and federal regulations concerning health and pollution for appropriate disposal procedures.

## SECTION 14 - TRANSPORTATION INFORMATION

DOT PROPER SHIPPING NAME: Not Regulated

DOT TECHNICAL NAME: N.A.

DOT HAZARD CLASS: N.A.

HAZARD SUBCLASS: N.A.

DOT UN/NA NUMBER: N.A.

PACKING GROUP: N.A.

RESP. GUIDE PAGE:

DOT PLACARD AT: N.A.

DOT CLASS NUMBER: N.A.

UN PROPER SHIPPING NAME: Not Regulated

UN HAZARD CLASS: N.A.

UN CLASS NUMBER: AIR N.A.

MARINE N.A.

HAZARD SUBCLASS: AIR N.A.

MARINE N.A.

UN UN/NA NUMBER: N.A.

UN PACKING GROUP: AIR N.A. MARINE N.A.

UN PLACARD AT: N.A.

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**SECTION 15 - REGULATORY INFORMATION****U.S. FEDERAL REGULATIONS: AS FOLLOWS -**

OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200)

**CERCLA - SARA HAZARD CATEGORY:**

This product has been reviewed according to the EPA 'Hazard Categories' promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

IMMEDIATE HEALTH HAZARD    CHRONIC HEALTH HAZARD

**SARA SECTION 313:**

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:

----- CHEMICAL NAME -----      CAS NUMBER      WT/WT % IS LESS THAN  
No SARA Section 313 components exist in this product.

**TOXIC SUBSTANCES CONTROL ACT:**

This product contains the following chemical substances subject to the reporting requirements of TSCA 12(B) if exported from the United States:

----- CHEMICAL NAME -----      CAS NUMBER  
None known.

**U.S. STATE REGULATIONS: AS FOLLOWS -****CALIFORNIA PROPOSITION 65:**

**WARNING:** The chemical(s) noted below and contained in this product, are known to the state of California to cause cancer, birth defects or other reproductive harm:

----- CHEMICAL NAME -----	CAS NUMBER
Vinyl acetate	108-05-4
dioxane	123-91-1
Crystalline (quartz) silica	14808-60-7
inorganic lead	7439-92-1
nickel	7440-02-0
Arsenic	7440-38-2
Cadmium	7440-43-9
ethylene oxide	75-21-8

**INTERNATIONAL REGULATIONS: AS FOLLOWS -**

**CANADIAN WHMIS:** This MSDS has been prepared in compliance with Controlled Product Regulations except for use of the 16 headings.

**CANADIAN WHMIS CLASS:** No information available.

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SECTION 16 - OTHER INFORMATION
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HMIS RATINGS - HEALTH: 2      FLAMMABILITY: 0      REACTIVITY: 1  
PERSONAL PROTECTION: E

PREVIOUS MSDS REVISION DATE: 03/13/00

REASON FOR REVISION: General review

VOLATILE ORGANIC COMPOUNDS (VOCs): 0.00 lbs/gal,    0 grams/ltr

LEGEND:    N.A. - Not Applicable, N.E. - Not Established,  
             N.D. - Not Determined

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<END OF MSDS>